ENGINEERING TRIAL REPORT
TRIAL DATA (GAS TURBINE DRIVEN SHIPS)

REPORT CONTROL SYMBOL OPNAV 9094-1

SHIP U.S.S. (NAME-TYPE-NUMBER)	DATE OF TRIAL

A. TYPE OF TRIAL

☐ FLEET TRAINING ☐ PRE-OVERHAUL ☐ POST REPAIR
☐ FULL POWER ☐ ECONOMY ☐ OTHER (SPECIFY) _____

B. GENERAL

1. DRAFT	FORWARD (FEET-INCHES)	AFT (FEET-INCHES)	MEAN (FEET-INCHES)	DISPLACEMENT (TONS)

2. BOTTOM FOULING DATA	DAYS OUT OF DOCK: TIME SINCE HULL WAS CLEANED AND COATED OR, WHERE COMPARABLE, WATERBORNE CLEANING HAS BEEN ACCOMPLISHED	DAYS UNDERWAY SINCE LAST HULL CLEANING	DAYS NOT UNDERWAY SINCE LAST HULL CLEANING	TYPE OF BOTTOM PAINT

3. PROPELLERS	NUMBER	DIAMETER (FT.-IN.)	DESIGN PITCH (FT.-IN.)	NO. OF BLADES	TYPE:	CONDITION (NICKS, CURLED EDGES, FOULING, ETC.)

4. WEATHER AND SEA CONDITIONS	PARAMETER/TIME	FIRST HOUR	SECOND HOUR	THIRD HOUR	FOURTH HOUR	FIFTH HOUR	SIXTH HOUR	AVERAGE
GENERAL	BAROMETRIC PRESSURE (INCHES HG)							
GENERAL	AIR TEMPERATURE (DRY BULB) (DEG F)							
GENERAL	AIR TEMPERATURE (WET BULB) (DEG F)							
GENERAL	RELATIVE HUMIDITY (PERCENT)							
GENERAL	SEA WATER INJECTION TEMP. (DEG F)							
WIND	TRUE FORCE (KNOTS)							
WIND	RELATIVE DIRECTION (DEG)							
SEA	STATE (BEAUFORT NO.)							
SEA	RELATIVE DIRECTION (DEG)							

C. PLANT CONDITIONS (GENERAL)

5. POWERING PARAMETERS			FIRST HOUR	SECOND HOUR	THIRD HOUR	FOURTH HOUR	FIFTH HOUR	SIXTH HOUR	AVERAGE
SHIP SPEED (KNOTS)									
REQUIRED	SHAFT RPM	STARBOARD							
REQUIRED	SHAFT RPM	PORT							
ACTUAL	SHAFT RPM	STARBOARD							
ACTUAL	SHAFT RPM	PORT							
METERED SHAFT TORQUE (LB-FT)		STARBOARD							
METERED SHAFT TORQUE (LB-FT)		PORT							
SHAFT (HP)†		STARBOARD							
SHAFT (HP)†		PORT							
6. PROPELLER PITCH ACTUAL (FT-IN)		STARBOARD							
6. PROPELLER PITCH ACTUAL (FT-IN)		PORT							
7. BLEED AIR FLOW USAGE	PRAIRIE (ON-OFF) OR CFM (IF AVAILABLE)								
7. BLEED AIR FLOW USAGE	MASKER (ON-OFF) OR CFM (IF AVAILABLE)								
7. BLEED AIR FLOW USAGE	ANTI-ICING (ON-OFF) OR CFM (IF AVAILABLE)								
7. BLEED AIR FLOW USAGE	OTHER (ON-OFF) OR CFM (SPECIFY)								
8. TOTAL FUEL CONSUMED	GALLONS								
8. TOTAL FUEL CONSUMED	TYPE FUEL LHV								

9. SHIP'S SERVICE GENERATORS			FIRST HOUR	SECOND HOUR	THIRD HOUR	FOURTH HOUR	FIFTH HOUR	SIXTH HOUR	AVERAGE
GAS TURBINE	NUMBER IN USE								
GAS TURBINE	RATING (KW)								
GAS TURBINE	BLEED AIR FLOW ON-OFF OR CFM IF AVAIL.								
GAS TURBINE	HOT-TEST BEARING	TEMP (DEG F)							
GAS TURBINE	HOT-TEST BEARING	LOCATION							
GAS TURBINE	TOTAL AVERAGE LOAD (KW)								
GAS TURBINE	FUEL CONSUMED* (GALLONS)								
DIESEL	NUMBER IN USE								
DIESEL	RATING (KW)								
DIESEL	HOT-TEST BEARING	TEMP (DEG F)							
DIESEL	HOT-TEST BEARING	LOCATION							
DIESEL	TOTAL AVERAGE LOAD (KW)								
DIESEL	FUEL CONSUMED* (GALLONS)								
10. INTERVAL READINGS WERE TAKEN DURING HOUR									

† SHP = $\frac{\text{TORQUE X RPM}}{5252}$

* ENTER DATA IF PARAMETER IS MONITORED BY INSTALLED INSTRUMENTATION. ENTER NA IF NOT

ENGINEERING TRIAL REPORT
TRIAL DATA (GAS TURBINE DRIVEN SHIPS)

SHIP (NAME-TYPE-NUMBER)
U.S.S.

DATE OF TRIAL

ENGINE ROOM NUMBER

MAIN ENGINE OR MAIN PROPULSION UNIT NUMBER

D. PLANT CONDITIONS (DETAILED)

	PARAMETER/TIME		FIRST HOUR	SECOND HOUR	THIRD HOUR	FOURTH HOUR	FIFTH HOUR	SIXTH HOUR	AVERAGE
1. GAS GENERATOR	SPEED	(RPM)							
	COMPRESSOR INLET TEMPERATURE	(DEG F)							
	COMPRESSOR INLET TOTAL PRESSURE	(PSIA)							
	COMPRESSOR DISCHARGE PRESSURE	(PSIG)							
	VIBRATION LEVEL MEASURED BY GAS GENERATOR PICK-UP	(MILS)							
	VIBRATION LEVEL MEASURED BY POWER TURBINE PICK-UP	(MILS)							
	BLEED AIR FLOW (ON-OFF OR CFM, IF AVAILABLE)								
2. POWER TURBINE	SPEED	(RPM)							
	TORQUE	(LB-FT)							
	POWER	(HP)							
	TURBINE INLET TEMPERATURE	(DEG F)							
	TURBINE INLET PRESSURE	(PSIA)							
	VIBRATION LEVEL MEASURED BY POWER TURBINE PICK-UP	(MILS)							
	VIBRATION LEVEL MEASURED BY GAS GENERATOR PICK-UP	(MILS)							
	EXHAUST GAS TEMPERATURE*	(DEG F)							
	EXHAUST GAS PRESSURE* (IN H_2O)	(PSIG)							
3. GT FUEL OIL	MANIFOLD PRESSURE	(PSIG)							
	INLET TEMPERATURE	(DEG F)							
4. LUBE OIL	GT SUPPLY PRESSURE	(PSIG)							
	COOLER OUTLET TEMPERATURE	(DEG F)							
	HOTTEST BEARING — LOCATION								
	HOTTEST BEARING — TEMPERATURE	(DEG F)							
5.	ENGINE COOLING AIR OUTLET TEMPERATURE	(DEG F)							
6.	FUEL CONSUMED*	(GALLONS)							
7.	INTERVAL READINGS WERE TAKEN DURING HOUR								

* ENTER DATA IF PARAMETER IS MONITORED BY INSTALLED INSTRUMENTATION
ENTER NA IF NOT